



Bilkent EEE



Bilkent EEE Distinguished Seminar Series

Bilkent University - Department of Electrical and Electronics Engineering



AI and the Future of Radiology

Daniel Rueckert

Technical University of Munich, Germany

Imperial College London, UK

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Artificial Intelligence (AI) is changing many fields across science and our society. This talk will discuss how AI is changing medicine and healthcare, particularly in radiology. I will focus on how AI can support the acquisition of medical images and image analysis and interpretation. This can enable the early detection of diseases and support the improved personalised diagnosis. I will show several examples of this in the talk, including neuro and cardiovascular MR imaging. Furthermore, we will discuss how AI solutions can be privacy-preserving while also providing trustworthy and explainable solutions for clinicians.

Bio: Daniel Rueckert (Fellow, 2015) is Alexander von Humboldt Professor for AI in Medicine and Healthcare at the Technical University of Munich. He is also Professor of Visual Information Processing in the Department of Computing at Imperial College London. He received a PhD from Imperial College in 1997. He has published more than 500 journal and conference articles in the area of medical image computing. He served as associate editor of IEEE Transactions on Medical Imaging and is a member of the editorial board of Medical Image Analysis. In 2014, he has been elected as a Fellow of the MICCAI society, and in 2015 he was elected as a Fellow of the Royal Academy of Engineering and of the IEEE. More recently he has been elected as Fellow of the Academy of Medical Sciences (2019) and as fellow of the American Institute for Medical and Biological Engineering (2021).

